

signal, reproducing said first test signal, and
calculating first measured characteristic values are
repeated for each of said frame groups;

5 said first measured characteristic values
obtained for each of said frame groups are averaged for
each tracking offset value; and
 said tracking offset characteristics are
obtained using the average measured characteristic values.

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3. The method as claimed in claim 2, wherein
 said frames included in said frame groups
15 are located at different angular position in said optical
disk; and

 said frames corresponding to each tracking
offset value in different frame groups are located at
different angular position in said optical disk.

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4. The method as claimed in claim 1, further
25 comprises:

 a step of determining a target
characteristic value suitable for said optical disk set in
a rotative mode;

 a step of selecting a first laser power set
30 of a plurality of laser powers;

 a step of recording a second test signal in
a second frame set of a plurality of frames using said
first laser power set, each of said frames being recorded

by a corresponding laser power included in said first laser power set;

a step of reproducing said second test signal recorded in said second frame set;

5 a step of calculating second measured characteristic values corresponding to each laser power included in said first laser power set;

a step of determining said write power corresponding to said target characteristic value by
10 interpolating said second measured characteristic values;

a step of determining a second laser power set of a plurality of laser powers;

a step of recording a third test signal in a third frame set of a plurality of frames using said
15 optimum tracking offset value and said second laser power set, each of said frames being recorded by a corresponding laser power included in said second laser power set;

a step of reproducing said third test signal recorded in said third frame set;

20 a step of calculating third measured characteristic values corresponding to each laser power included in said second laser power set; and

a step of determining an optimum write power corresponding to said target characteristic value by
25 interpolating said third measured characteristic values.

30 5. The method as claimed in claim 4, further comprising:

a step of storing said optimum tracking offset value in memory; and

a step of storing said optimum write power
in said memory.

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6. The method as claimed in claim 4, wherein
said laser powers included in said first
laser power set are laser powers having a level increasing
10 in 5 equal steps from a minimum value to a maximum value;
said tracking offset values included in said
tracking offset value set are determined by an initial
value and a step, both depending on said rotative mode of
said optical disk; and
15 said laser powers included in said second
laser power set are said write power and four laser powers,
two increasing in an equal step from said write power and
two decreasing in said equal step from said write power.

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7. The method as claimed in claim 1, wherein
said tracking offset characteristics are obtained by
25 approximating with a quadratic curve.

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8. An optical disk drive, comprising:
a motor that rotates an optical disk in a
rotative mode;
an optical pickup that writes and reads a

test signal on said optical disk;

5 a controller that determines a tracking
offset value set of a plurality of tracking offset values,
records a first test signal in a first frame set of a
plurality of frames using a write power and said tracking
offset value set, each frame being recorded by a
corresponding tracking offset value, reproduces said first
test signal recorded in said first frame set, calculates
first measured characteristic values corresponding to each
10 tracking offset value included in said tracking offset
value set, obtains tracking offset characteristics by
interpolating said first measured characteristic values,
and determines an optimum tracking offset value that gives
a maximum value in said tracking offset characteristics.

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9. The optical disk drive as claimed in
20 claim 8, wherein

said controller further determines a target
characteristic value suitable for said optical disk set in
a rotative mode, selects a first laser power set of a
plurality of laser powers, records a second test signal in
25 a second frame set of a plurality of frames using said
first laser power set, each of said frames being recorded
by a corresponding laser power included in said first
laser power set, reproduces said second test signal
recorded in said second frame set, calculates second
30 measured characteristic values corresponding to each laser
power included in said first laser power set, and
determines said write power corresponding to said target
characteristic value by interpolating said second measured



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